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cont

BglII at about coordinate 9150 of plasmid λ -J19 [is the expression product of a host transformed with a vector containing a nucleic acid fragment of plasmid λ -J19, and wherein said nucleic acid fragment extends from the restriction site KpnI at about coordinate 6100 to the restriction site BglII at about coordinate 9150 of plasmid λ -J19];

- (b) raising antibodies against said antigen, and
- (c) recovering said antibodies.

32. (Twice Amended) A method of producing antibodies to an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

X

(a) providing an antigen of HIV-1, wherein said antigen ^{is encoded by} corresponds to a nucleic acid fragment extending from the restriction site KpnI at about coordinate 3500 to the restriction site BglII at about coordinate 6500 of plasmid λ -J19 [is the expression product of a host transformed with a vector containing a nucleic acid fragment of plasmid λ -J19, and wherein said nucleic acid fragment extends from the restriction site KpnI at about coordinate 3500 to the restriction site BglII at about coordinate 6500 of plasmid λ -J19],

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- (b) raising antibodies against said antigen, and
 - (c) recovering said antibodies.

33. (Twice Amended) A method of producing antibodies to an antigen of human immunodeficiency virus type 1 (HIV-1), said method comprising:

X

(a) providing an antigen of HIV-1, wherein said antigen ^{is encoded by} corresponds to a nucleic acid fragment extending from the restriction site PstI at about coordinate 800 to the restriction site